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NEWS 2 Jul 8 Important Derwent Announcement about CPI Changes to
CPI Subscriber Indexing in 1999 - REVISED
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NEWS 4 Jul 7 PATOSWO Coverage Extended to 1978 through 1982
Backfile
NEWS 5 Jul 7 COMPENDEX Accession Number Change

NEWS 5 Jul 7 COMPENDER Accession Number Change NEWS 6 Jul 13 Expanded Coverage of US Patents NEWS 7 Jul 14 ENERGY Accession Number Change

NEWS 8 Jul 18 MEDLINE Now Searchable from 1960 to Date NEWS 9 Jul 21 INSPEC Accession Number Display Changes

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--> file reg

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STRUCTURE FILE UPDATES: 23 JUL 99 HIGHEST RN 228731-40-6 DICTIONARY FILE UPDATES: 23 JUL 99 HIGHEST RN 228731-40-6

ISCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

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Upleading 9077718.str

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 11:49:40 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE 100.0: PROCESSED 13 ITERATIONS

SEARCH TIME: 00.00.01

2 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\* 476 PROJECTED ITERATIONS: 44 TO

PROJECTED ANSWERS:

2 TO 124

2 SEA SSS SAM L1

Uploading C9077718.str

I.3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 11:50:31 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1835 TO ITERATE 54.5% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

34133 TO 39267 5886 TO 8132

PROJECTED ANSWERS:

50 SEA SSS SAM L3

=> s 11 sub=13 sam

13 MAY NOT BE USED HERE The L-number must have been created by a search in this file. To see all L-numbers defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>). For additional information on subset searching in this file, enter HELP SUBSET. ENTER SUBSET L# OR (END):end

SEARCH ENDED BY USER

=> help subset

Subset searching is available for structure searches in the REGISTRY File. A subset search may be performed on any answer set created in this file. Structure search answer sets must have been created after April 15, 1989.

SAMPLE, FULL, or RANGE must be specified as the subset search scope. There is no default subset search scope.

SSS, CSS, FAM, or EXA may be specified as the subset search type. SSS is the default subset search type.

## Example:

=> SEARCH L5 SUBSET=L3 SAM SSS

The same query limitations that apply to non-subset searches in this file also apply to subset searches. The search limits for a subset search are the same as those for an online non-subset search of the same type and scope.

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 $\begin{array}{c} \mathtt{HELP} \ \mathtt{SEARCH} \ \mathtt{SUBSET} \ \mathtt{-} \ \mathtt{Information} \ \mathtt{on} \ \mathtt{how} \ \mathtt{to} \ \mathtt{perform} \ \mathtt{a} \ \mathtt{subset} \\ \mathtt{search} \end{array}$ 

HELP COST - Fees for subset searches

HELP SLIMIT - Structure search limits in this file

-> s 11 ful

FULL SEARCH INITIATED 11:53:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 171 TO ITERATE
100.0% PROCESSED 171 ITERATIONS
SEARCH TIME: 00.00.01

29 ANSWERS

L5 29 SEA SSS FUL L1

-> s 13 ful

FULL SEARCH INITIATED 11:53:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 36343 TO ITERATE
100.0% PROCESSED 36343 ITERATIONS
SEARCH TIME: 00.00.02

8067 ANSWERS

L6 8067 SEA SSS FUL L3

-> s 15 sub=16

ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):ful

FULL SUBSET SEARCH INITIATED 11:54:04 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 5 ANSWERS

SEARCH TIME: 00.00.01

17 5 SEA SUB=L6 SSS FUL L1

 $\Rightarrow$  d 17 hitstr abs ibib 1-5

'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY' 'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY' 'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual

```
fields or predefined formats. The predefined substance formats
are: (RN CAS Registry Number)
1. 1. . . .
     - RN
      - Index Name, MF, and structure - no RN
FILE - All substance data, except sequence data
      - FIDE, but only 50 names
SylDE – IDE, plus sequence data
8,10E3 - Same as SQIDE, but 3-letter amino acid codes are used
මට - Protein sequence data, includes RN
S003
     - Same as SQD, but 3-letter amino acid codes are used
SON - Protein sequence name information, includes RN
Any CA File format may be combined with any substance format to
obtain CA references citing the substance. The substance formats
must be cited first. The CA File predefined formats are:
ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IFC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL
IARS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
OBIB ----- AN, plus Bibliographic Data (original)
CIBIB ----- OBIB, indented with text labels
The ALL format gives FIDE BIB ABS IND, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.
For additional information, please consult the following help
messages:
HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end
 > file caplus uspatful
                                                 SINCE FILE
                                                                TOTAL
COST IN U.S. DOLLARS
                                                     ENTRY SESSION
                                                     273.00
                                                              273.15
FULL ESTIMATED COST
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```

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CA INDEXING COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

-> s 17

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10 17
1.8
 👉 dup rem 18
 PROCESSING COMPLETED FOR L8
               9 DUP REM L8 (1 DUPLICATE REMOVED)
 => d 19 hitstr abs ibib 1-9
      ANSWER 1 OF 9 CAPLUS COPYRIGHT 1999 ACS
 19
      208516-87-4, Nad 299
      RL: BAC (Biological activity or effector, except adverse); THU
      (Therapeutic use); BIOL (Biological study); USES (Uses)
         (pharmaceutical compns. contg. monoamine oxidase inhibitor as
         antidepressant)
 RN
      208516-87-4 CAPLUS
      2H-1-Benzopyran-5-carboxamide,
 3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-
      , (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
      CM
      CRN 169758-66-1
      CMF C18 H23 F N2 O2
      CDES 1:R
 Absolute stereochemistry. Rotation (-).
      F
            0
              R
                  N
 HON
       0
      CM
           2
      CRN 87-69-4
      CMF C4 H6 O6
      CDES 1:R2:R*,R*
 Absolute stereochemistry.
```

ΟH

HO2C R R CO2H

ΟE

AB Pharmaceutical compns. contain a monoamine oxidase inhibitor, a 5-HT1A presynaptic antagonist and a 5-HT1A agonist as combination product to be used simultaneously, sep. or spread over time for treating different terms

```
s: depression. Antidepressant efficacy of a combination of 3 mg/kg
     betloxatone i.p., 1 mg/kg pindolol i.p., and 0.3 mg/kg buspirone i.p. was
     studied in rats.
ACCESSION NUMBER:
                              1999:219988 CAPLUS
DOTTIMENT NUMBER:
                               130:247053
                              Pharmaceutical compositions containing a moncamine
                             cxidase inhibitor as antidepressant
INVENTOR(S):
                             Depoortere, Henri
PATENT ASSIGNEE(S):
                           Synthelabo S. A., Fr.
                             PCT Int. Appl., 32 pp.
JOURCE:
                              CODEN: PIXXD2
DUCTMENT TYPE:
                              Patent
LANGUAGE:
                              French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                       KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
     WO 9913879 A1 19990325 WO 1998-FR1929 19980910
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
          DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, MI, MR, NE, SN, TD, TG
                                                   AU 1998-90819 19980910
FR 1997-11545 199701
WO 1998-FP10
               CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      FR 2768338 A1 19990319 FR 1997-11545
AU 9890819 A1 19990405 AU 1998-90819
                          A1 19990405
      AU 9890819
PRIORITY APPLN. INFO.:
     ANSWER 2 OF 9 CAPLUS COPYRIGHT 1999 ACS
1.9
      208516-87-4, (R)-3-N, N-Dicyclobutylamino-8-fluoro-3, 4-dihydro-2H-1-
      benzopyran-5-carboxamide (2R, 3R)-tartrate
      RL: BAC (Biological activity or effector, except adverse); THU
      (Therapeutic use); BIOL (Biological study); USES (Uses)
          (5-HT1A antagonist; prepn. and/or therapeutic combination of selective
         5-HT1A antagonists with selective h5-HT1B antagonists or partial
         agonists)
RN
      208516-87-4 CAPLUS
CN 2H-1-Benzopyran-5-carboxamide,
3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-
      , (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
      CM = 1
      CRN 169758-66-1
      CMF C18 H23 F N2 O2
      CDES 1:R
```

Assolute stereochemistry. Rotation (-).

()

R

Ν

H2N O

CM 2

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\*

Absolute stereochemistry.

Oii

HO2C R R CO2H

ОН

ĠΙ

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention relates to a combination of a first component (a) which is a selective 5-HT1A receptor antagonist I [wherein R1 = Pr or cyclobutyl, R2 = isc-Pr, tert-Bu, cyclobutyl, cyclopentyl, or cyclobacyl; R3 = H and R4

H or Me], being in the (R)-enantiomer form, with a second component (b) which is a selective h5-HT1B antagonist or partial agonist II [wherein X

CH2 or O; Y = CONH or NHCO; R1 = H, C1-6 alkyl, or C3-6 cycloalkyl; R2 = H, C1-6 alkyl, C1-6 alkoxy, or halo; R3 = morpholino, morpholinocarbonyl, 4-exopiperidino, CF3, or CONR4R5; R4, R5 = H or C1-4 alkyl], as a

or either enantiomer, with said components (a) and (b) being in the form of free bases, solvates, or pharmaceutically acceptable salts. The invention also relates to their prepn., combination pharmaceutical formulations, use, a method of treating affective disorders such as depression, anxiety, and OCD using the combinations, as well as a kit contg. the combinations. The combinations of the invention may afford a new route to faster onset of action in antidepressant therapy. For instance, amidation of 4-morpholinobenzoic acid with

(R)-2-amino-5-methyl-8-(4-methylpiperazin-1-yl)-1,2,3,4-tetrahydronaphthalene using 1,1'-carbonyldiimidazole in DMF gave 73% III. Using III as the h5-HT1B antagonist, and benzopyrancarboxamide deriv. IV (tartrate salt) as the 5-HT1A antagonist, a synergistic increase in 5-HT turnover was obtained

111

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4 broth regions of Judinea pigs, as compared with compd. III alone.
ANTERVIEW NUMBER: 1999:219985 CAPLUS
. COMMENT NUMBER:
                                  130:252381
A combination of a selective 5-HT1A antagonist
                                  [benzopyran derivative] and a selective h5-HT1B
                                  antagonist or partial agonist [piperazinonaphthalene
                                  or -benzopyran derivative] for antidepressant therapy
INVENTOR(S):
                                  Berg, Stefan; Ross, Svante; Thorberg, Seth-Olov
PATENT ASSIGNEE(S):
                                  Astra Aktiebolag, Swed.
SOURCE:
                                  PCT Int. Appl., 79 pp.
                                  CODEN: PIXXD2
DOCUMENT TYPE:
                                  Patent
LANGUAGE:
                                  English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                         KIND DATE
       PATENT NO.
                                                         APPLICATION NO. DATE
      PATENT NO. KIND DATE

APPLICATION NO. DATE

WC 9913876

A: 19990325

WO 1998-SE1600 19980909

W: AL, AM, AT, AU, AS, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, 1L, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9891929

Al 19990405
                                                          AU 1998-91929
       AU 9891929
                            A1 19990405
                                                                                 19980909
PRIORITY APPLN. INFO.:
                                                           SE 1997-3374
                                                                                 19970918
                                                           WO 1998-SE1600 19980909
                                MARPAT 130:252381
OTHER SOURCE(S):
1.9
      ANSWER 3 OF 9 CAPLUS COPYRIGHT 1999 ACS
      208516-87-4, NAD-299
ΙT
      RL: BAC (Biological activity or effector, except adverse); BIOL
       (Biological study)
           (electrophysic), comparison of 5-HT1A antagonists on dorsal raphe cell
           firing)
      208516-87-4 CAPLUS
CN
      2H-1-Benzopyran-5-carboxamide,
3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-
       , (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
      CM 1
      CRN 169758-66-1
      CMF C18 H23 F N2 O2
      CDES 1:R
Absolute stereochemistry. Rotation (-).
      F
               Ω
                  R
                       Ν
```

Han O

CM 2:

ORN 87-69-4 CMF C4 H6 O6 TDES 1:R2:R\*,R\*

Apsolute stereochemistry.

OH

HONC R R CO2H

OH

AB Single-unit recording studies were undertaken in chloral hydrate-anesthetized rats to compare the effects on dorsal raphe cell firing of several putative 5-hydroxytryptamine (HT)1A receptor antagonists, including WAY 100635 (N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]-ethyl]-N-(2-pyridinyl) cyclohexanecarboxamide), p-MPPI (4-(2-methoxyphenyl)1-[2'-[N-(2''-pyridinyl)-p-iodobenzamido]ethyl]piperazine), and two newly described 5-HT1A receptor antagonists, NDL-249 [(R)-3-(N-propylamino)-8-fluoro-3,4-dihydro-2H-1-benzopyran-5-carboxamide] and NAD-299 [(R)-3-N,N-dicyclobutylamino-8-fluoro-3,4-dihydro-2H-1-benzopyran-5-carboxamide]. Consistent with a 5-HT1A receptor antagonist profile, pretreatment with an approx.

equimolar

(0.02-0.03 .mu.mol/kg) i.v. dose of each compd. caused a significant rightward shift in the dose-response curve for 8-OH-DPAT [8-hydroxy-2-(di-n-propylamino)tetralin]. Antagonist potency was clearly highest for NAD-299 and WAY 100635, which caused shifts roughly 3 times greater than those for either p-MPPI or NDL-249 (ED50 for 8-OH-DPAT, 1.3 .+-. 0.3 .mu.g/kg; after NAD-299, 18.2 .+-. 1.0 .mu.g/kg; after WAY 100635, 16.9 .+-. 2.9 .mu.g/kg; after NDL-249, 6.0 .+-. 1.2 .mu.g/kg; after p-MPPI, 4.7 .+-. 1.1 .mu.g/kg). In sep. studies, each of the antagonists was administered alone in increasing cumulative doses to evaluate whether they possessed intrinsic agonist activity in this

system.

At doses below 0.01 .mu.mol/kg, none of the drugs altered firing by more than .+-.20% basal rates. At higher doses (>0.1 .mu.mol/kg), WAY 100635, NDL-249, and NAD-299 caused a dose-dependent suppression of dorsal raphe cell firing (ED50 = 0.6 .+-. 0.2, 0.7 .+-. 0.3, and 0.9 .+-. 0.4 .mu.mol/kg, resp.). However, the ED50 values for inhibition by these drugs were roughly 30 times higher than the doses that antagonized

effects

of 8-OH-DPAT. Moreover, the inhibition by all three antagonists (but not 8-OH-DPAT) was readily reversed by d-amphetamine (3.2 mg/kg i.v.), a releaser of norepinephrine, suggesting that these effects were likely due to alpha adrenergic receptor blockade rather than to 5-HT1A receptor agonism. Thus, it was concluded that WAY 100635, NAD-299, NDL-249, and p-MPPI all fulfill criteria as 5-HT1A receptor antagonists lacking intrinsic efficacy in the dorsal raphe system. The newly described

compa.

NAD-299 exhibits antagonist potency comparable to that of WAY 100635 in this electrophysiol. assay.

ACCESSION NUMBER:

1999:99766 CAPLUS

DOCUMENT NUMBER:

130:294350

TITLE:

Electrophysiological comparison of

5-hydroxytryptamine1A receptor antagonists on dorsal

raphe cell firing

AUTHOR(S):

Martin, Lynn P.; Jackson, David M.; Wallsten, Carin;

Washozak, Barbara L. T RESEATE FOURCE: Department of Pharmaceutical Sciences, Northeastern University, Boston, MA, USA J. Pharmacol. Exp. Ther. (1999), 288(2), 820-826 1 11 11 11 11 11 CODEN: JPETAB; ISSN: 0022-3565 HUBLISHER: American Society for Pharmacology and Experimental Therapeutics DUCUMENT TYPE: Journal LANGUAGE: English 1.9 ANSWER 4 OF 9 CAPLUS COPYRIGHT 1999 ACS ΙT **208516-87-4**, NAD-299 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (in vivo intrinsic efficacy of 5-HT1A receptor antagonists NAD-299 and WAY-100,635 and UH-301 at rat brain monoamine receptors) RH 208516-87-4 CAPLUS CN 2H-1-Benzopyran-5-carboxamide, 3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-, (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME) CM 1 CRN 169758-66-1 CMF | C18 H23 F N2 O2 CDES 1:R Absolute stereochemistry. Rotation (-). F 0 R Ν H2N 0 CM 2 CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\* Absolute stereochemistry. ОН CO2H R H02C ОН The receptor-mediated control of brain monoamine synthesis was used to examine the in vivo intrinsic efficacy of the 5-HTiA receptor antagonists

ABNAD-299, S(-)-UH-301 and WAY-100,635. The rate of monoamine synthesis Was

estd. by measuring the accumulation of DOPA and 5-HTP in the ventral neostriatum and the ventral hippocampus in rats pretreated with an inhibitor of cerebral arom. L-amino acid decarboxylase. S(-)-UH-301 (2.0-32.0 .mu.mol kg-1), but not WAY-100,635 (0.08-1.2 .mu.mol kg-1), produced a decreased 5-HTP accumulation in the neostriatum and in the hippocampus. The administration of NAD-299 (0.75-12.0 .mu.mol kg-1) resulted in a slight increase in neostriatal, but not hippocampal, 5-HTP accumulation. Neostriatal DOPA accumulation was decreased by S(-) - UH - 301,whereas treatment with WAY-100,635 resulted in an increase. NAD-299 did not affect neostriatal DOPA levels. There were no effects by any of these agents on DOPA levels in the ventral hippocampus. It is concluded that S(-)-UH-301, but not WAY-100,635 or NAD-299, displays intrinsic efficacy at brain 5-HTIA and DA D2/3 receptors, whereas WAY-100,635 behaves as a D2/3 receptor antagonist. By this comparison, NAD-299 appears to be the most selective and specific 5-HT1A receptor antagonist. 1999:45451 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 130:306405 In vivo intrinsic efficacy of the 5-HT1A receptor TITLE: antagonists NAD-299, WAY-100,635 and (S)-(-)-UH-301аt rat brain monoamine receptors AUTHOR(S): Ahlenius, Sven; Henriksson, Ingrid; Magnusson, Olle; Salmi, Peter CORPORATE SOURCE: CNS Preclinical Research and Development, Department of Pharmacology, Astra Arcus AB, Soedertaelje, S-151 85, Swed. Eur. Neuropsychopharmacol. (1999), 9(1-2), 15-19 SOURCE: CODEN: EURNE8; ISSN: 0924-977X Elsevier Science Ireland Ltd. PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE: English ANSWER 5 OF 9 CAPLUS COPYRIGHT 1999 ACS 19 177255-04-8P 208516-87-4P RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of dicyclobutylamino(fluoro)dihydrobenzopyrancarboxamide hydrogen tartrate for pharmaceuticals) 177255-04-8 CAPLUS RN 2H-1-Benzopyran-5-carboxamide, CN 3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-(3R) -, (2R,3R) -2,3-dihydroxybutanedioate (1:1), monohydrate (9CI) (CA) INDEX NAME) CM 1 CRN 169758-66-1 CMF C18 H23 F N2 O2 CDES 1:R

Absolute stereochemistry. Rotation (-).

G R N

CM 2

HgH O

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\*

Appointe stereochemistry.

ОН

HO2C R R CO2H

ОН

RN 208516-87-4 CAPLUS
CN 2H-1-Benzopyran-5-carboxamide,
3-(dicyclobutylamino)-8-fluoro-3,4-dihydro, (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

CM. 1

CRN 169758-66-1 CMF C18 H23 F N2 O2 CDES 1:R

Absolute stereochemistry. Rotation (-).

F

0

R

N

H2N O

CM 2

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\* OΗ

HONG R R COSH

As new salt, (R)-3-(N,N)-dicyclobutylamino-8-fluoro-3,4-dihydro-2H-l-benzcpyran-5-carboxamide hydrogen tartrate, particularly the (2R,3R)-tartrate salt, and most particularly the (R)-3-N,N- dicyclobutylamino-8-fluoro-3,4-dihydro-2H-l-benzcpyran-5-car boxamide hydrogen-(2R,3R)-tartrate monohydrate, processes for the manuf. of the tartrate, the use of the tartrate salt in the manuf. of pharmaceutical formulations, and a method for the treatment of CNS disorders by using these compds. are described. Thus, the (2R,3R)-tartrate salt was prepd. by the reaction of

(R)-3-(N,N)-dicyclobutylamino-8-fluoro-3,4-dihydro-2H-1-

benzopyran-5-carboxamide with (2R,3R)-tartaric acid in 1 mL THF and 25 mL

di-Et ether.

ACCESSION NUMBER: 1998:795000 CAPLUS

DOCUMENT NUMBER: TITLE:

130:43350 Preparation of

(R)-3-(N,N)-dicyclobutylamino-8-fluoro-

3,4-dihydro-2H-1-benzopyran-5-carboxamide hydrogen

tartrate for pharmaceuticals Nyqvist, Hakan; Sohn, Daniel D.

INVENTOR(S): Nyqvist, Hakan; Sohn, Da PATENT ASSIGNEE(S): Astra Aktiebolag, Swed. SOURCE: PCT Int. Appl., 21 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.				ND	DATE			APPLICATION NO.					DATE			
WO	9854166			A1 \		19981203			WO 1998-SE907				19980515				
	W:	AL,	AM,	ΑT,	AÙ,	AZ,	_BA,	ВВ,	BG,	BR,	ΒY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	ΕĒ,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ΙD,	IL,	IS,	JP,	ΚE,	KG,
		ΚP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NΖ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,
		UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM
	RW:	GH,	GM,	KΕ,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GA,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG							
SE	SE 9702066			A		19981201			SE 1997-2066				19970530				
SE	SE 510305			22		19990510											
AU	AU 9877 <b>9</b> 23			A1		19981230			AU 1998-77923								
PRIORITY APPLN. INFO				.:					SE 1997-2066				19970530				
									W	0 19	98-S	E907		1998	0515		

19 ANSWER 6 OF 9 CAPLUS COPYRIGHT 1999 ACS

IT **208516-87-4**, NAD-299

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(facilitation and inhibition of male rat ejaculatory behavior by 5-HT1A

and 5-HT1B receptor agonists 8-OH-DPAT and anpirtoline as evidenced by use of receptor antagonists NAD-299 and NAS-181)

RN 208516-87-4 CAPLUS

1H-1-Rennopyran-1-Carboxamide, -- 'arrayal abutylamino) -8-:luoro-3,4-dihydro-, (3R)-, (2R, 3R)-2,3-dihydroxybutanedicate (1:1) (9CI) (CA INDEX NAME) CRN 169758-66-1 CMF C18 H23 F N2 O2 CDES 1:R Absolute stereochemistry. Rotation (+). H, 0 R Ν  $\mathrm{H}_2 \mathbb{N}$ 0 CM2 87-69-4 CRN CMF C4 H6 O6 CDES 1:R2:R\*,R\* Absolute stereochemistry. ОН R CO2H R HO2C OH Ejaculatory problems and anorgasmia are well-known side-effects of the AΒ SSRI (selective serotonin reuptake inhibitor) antidepressants, and a pharmacol. induced increase in serotonergic neurotransmission inhibits ejaculatory behavior in the rat. In the present study the role of 5-HT1A and 5-HT1B receptors in the mediation of male rat ejaculatory behavior was examd. by use of selective agonists and antagonists acting at these 5-HT receptor subtypes. The 5-HT1A receptor agonist 8-OH-DPAT (0.25-4.00 .mu.mol kg-1 s.c.) produced an expected facilitation of the male rat ejaculatory behavior, and this effect was fully antagonized by pretreatment with the new selective 5-HT1A receptor antagonist (R)-3-N, N-dicyclobutylamino-8-fluoro-3, 4-dihydro-2H-1-benzopyran-5carboxamide hydrogen (2R,3R) tartrate monohydrate (NAD-299) (1.0 .mu.mol kg-1 s.c.). NAD-299 by itself (0.75-3.00 .mu.mol kg-1 s.c.) did not affect the male rat ejaculatory behavior. The 5-HT1B receptor agonist anpirtoline (0.25-4.00 .mu.mol kg-1 s.c.) produced a dose-dependent inhibition of the male rat ejaculatory behavior, and this effect was fully antagonized by pretreatment with the 5-HT1B receptor antagonist isamoltane (16 .mu.mol kg-1 s.c.) as well as by the new and selective antagonist

 $R_{\rm c} = +(-2-(3-{\rm morpholinomet.hyl-2H-chromene-8-yl})$  oxymethylmorpholino methanesulfonate (NAS-181) (16 .mu.mol kg-1 s.c.). Isamoltane (1.0-16.0 .mu.mol kq-1 s.c.) and NAD-181 (1.0-16.0 .mu.mol kq-1 s.c.) had no, or weakly facilitatory effects on the male rat ejaculatory behavior. The non-selective 5-HT1 receptor antagonist (-)-pindolol (8 .mu.mol kg-1 s.c.), did not antagonize the inhibition produced by anpirtoline. The present results demonstrate opposite effects, facilitation and inhibition, of male rat ejaculatory behavior by stimulation of 5-HT1A and 5-HT1B receptors, resp., suggesting that the SSRI-induced inhibition of male ejaculatory dysfunction is due to 5-HT1B receptor stimulation. ACCESSION NUMBER: 1999:62618 CAPLUS DOCUMENT NUMBER: 130:262483 TITLE: Facilitation and inhibition of male rat ejaculatory behavior by the respective 5-HT1A and 5-HT1B receptor agonists 8-OH-DPAT and ampirtoline, as evidenced by use of the corresponding new and selective receptor antagonists NAD-299 and NAS-181 AUTHOR(S): Hillegaart, Viveka; Ahlenius, Sven CORPORATE SOURCE: Department of Pharmacology, Astra Arcus AB, Soedertaelje, SE-151 85, Swed. SOURCE: Br. J. Pharmacol. (1998), 125(8), 1733-1743 CODEN: BJPCBM; ISSN: 0007-1188 PUBLISHER: Stockton Press DOCUMENT TYPE: Journal LANGUAGE: English L9 ANSWER 7 OF 9 CAPLUS COPYRIGHT 1999 ACS Ιľ RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (NAD 299 for in vivo labeling of mouse brain 5-hydroxytryptaminelA receptors) RN 209056-10-0 CAPLUS 2H-1-Benzopyran-6-t-5-carboxamide, 3-(dicyclobutylamino)-8-fluoro-3,4dihydro-, (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME; CM 1 CRN 209056-09-7 CMF C18 H22 F N2 O2 T Absolute stereochemistry. F 0 R Ν  $H_2N$ 0 CM 2

CRN 87-69-4

Page 15

CDES 1:R2:R\*,R\* Absolute stereochemistry. ĊН R COSH 12 ΟH 208516-87-4, NAD 299 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (NAD 299 for in vivo labeling of mouse brain 5-hydroxytryptaminelA receptors) 208516-87-4 CAPLUS RNCN 2H-1-Benzopyran-5-carboxamide, 3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-, (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME) CM 1 CRN 169758-66-1 CMF C18 H23 F N2 O2 CDES 1:R Absolute stereochemistry. Rotation (-). ۲, 0 R Ν HoN 0 2 CM CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\* Absolute stereochemistry. ОН CO2H R HO2C ОН

CMF 14 H6 06

AB The in vivo labeling of 5-hydroxytryptamine (5-HT)1A receptors in the mouse brain was studied with the novel selective 5-HT1A receptor

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antainnist, NAI-134
  F.-B-M. Medicy: Nebutylamino=8-fluoro=3,4-dihydro=2H-1-
    rennervranelecarbexamide hydrogen (28,38)-tartrate monohydrate).
     BH-NAD-299 was injected in a tail vein and the radioactivity in various
     brain regions was detd. More than 90% of the radioactivity in
    hippocampus, 15 min after the injection, was intact NAD-299. At this
     the amt. of 3H-NAD-299 was highest in hippocampus followed by frontal
     cortex, mesencephalon, hypothalamus, striatum and cerebellum. The
     specific accumulation of radioactivity (after subtracting cerebellum
     values) in frontal cortex and hippocampus was maximal 10 to 30 min after
     the injection and had almost disappeared after 2 h. Sath. kinetics
     derived Bmax (pmol/g wet wt. tissue) values of 19.6 in frontal cortex and
     38.0 in hippocampus. The apparent Kd values, expressed in nmol/kg
     3H-NAD-299 injected, were 12.3 in frontal cortex and 20.3 in hippocampus.
     The 5-HT1A receptor antagonist WAY-100,635 competitively inhibited the
     specific accumulation of 3H-NAD-299 and was about equipotent with
     unlabeled NAD-299 with ED50 values of 20-30 nmol/kg s.c. These compds.
     were about 10 times more potent than the 5-HT1A receptor antagonists
     p-MPP1 and NDL-249 and 100 times more potent than (S)-UH-301. 5-HT1A
     receptor agonists, e.g., 8-OH-DPAT and flesinoxan and partial agonists,
     e.g., pindolol, buspirone and ipsapirone, had low potency in this in vivo
     assay. Spiperone and methiothepin inhibited the 3H-NAD-299 accumulation
     at 10 .mu.mol/kg s.c. The .alpha.1-adrenoceptor antagonist, prazosin, at
     2 .mu.mol/kg s.c. increased significantly the specific accumulation of
     3H-NAD-299. Pretreatment of the mice with the non-selective,
irreversible
     receptor antagonist EEDQ produced a dose related long-lasting decrease in
     the accumulation of 3H-NAD-299. It is concluded that NAD-299 is a very
     suitable ligand for studies of 5-HT1A receptors in the brain in vivo.
ACCESSION NUMBER:
                         1998:291396 CAPLUS
DOCUMENT NUMBER:
                         129:63322
                         In vivo labeling of the mouse brain
TITLE:
                         5-hydroxytryptaminelA receptor with the novel
                    selective antagonist 3H-NAD-299
Stenfors, C.; Werner, Tom; Ross, Svante B.
Preclinical R + D, Biochemical Pharmacology, Astra
Arcus AB, Soedertaelje, S-151 85, Swed.
AUTHOR(S):
CORPORATE SOURCE:
                        Naunyn-Schmiedeberg's Arch. Pharmacol. (1998),
SOURCE:
357(5),
                         500-507
                         CODEN: NSAPCC; ISSN: 0028-1298
                         Springer-Verlag
PUBLISHER:
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     ANSWER 8 OF 9 CAPLUS COPYRIGHT 1999 ACS
     208516-87-4, NAD 299
     RL: BAC (Biological activity or effector, except adverse); BIOL
     (Biological study)
        (serotoninergic S1A receptor antagonists antagonism of
        hydroxy-DPAT-induced decrease in serotonin synthesis in different
brain
        areas)
RN 208516-87-4 CAPLUS
CN 2H-1-Benzopyran-5-carboxamide,
3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-
     , (3R)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
     CM 1
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CRN 169758-66-1 CMF C18 H23 F N2 O2 Absolute stereochemistry. Rotation (-).

'n,

0

R

N

H, N 0

CM 2

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R\*,R\*

Absolute stereochemistry.

ОН

HO2C R R CO2H

ОН

The effects of two 5-HT1A receptor antagonists, (R)-3-N,N-dicyclobutylamino-8-fluoro-3,4-dihydro-2H-1-benzopyran-5-carboxamide hydrogen (2R,3R)-tartrate monohydrate (NAD-299) and N-(2-(1-(2-methoxyphenyl)-piperazinyl)ethyl)-N-(2-pyridinyl) cyclohexanecarboxamide trihydrochloride (WAY-100635) on the decrease in 5-hydroxytryptophan (5-HTP) accumulation evoked by (RS)-2-dipropylamino-8-hydroxy-1,2,3,4-tetrahydronaphthalene (8-OH-DPAT) in rats treated with the decarboxylase inhibitor, 3-hydroxyphenylhydrazine (NSD 1015) were studied in four rat brain regions: hippocampus, hypothalamus, striatum and frontal cortex. Dose-response studies revealed differential effects of both antagonists

the areas examd. Both antagonists were significantly more potent in antagonizing the effect of 0.30 and 0.76 .mu.mol/kg s.c. 8-OH-DPAT in hippocampus than in hypothalamus, striatum and frontal cortex in

mentioned order. This order of potency was the opposite to that found for \$-OH-DPAT

in decreasing the 5-HTP accumulation. Since previous studies by others have indicated that the reserve of somatodendritic 5-HT1A receptors is greater in dorsal raphe nucleus innervating frontal cortex and striatum than in median raphe nucleus which mainly innervates hippocampus, the obsd. different regional potency of the two 5-HT1A receptor antagonists may be explained by this difference in the 5-HT1A receptor reserve.

ACCESSION NUMBER:

1998:252565 CAPLUS

DOCUMENT NUMBER:

129:49923

TITLE:

Differential regional antagonism of 8-OH-DPAT-induced decrease in serotonin synthesis by two 5-HT1A

receptor

antagonists

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ATTHUR 4:
                          Larsson, Lars-Gunnar; Stenfors, Carina; Ross, Syante
                          Freelinical R&D, Biochemical Pharmacology, Astra
THE BATE BOTHCH:
                          Arcus, Scedertaelje, Swed.
                          Eur. J. Pharmacol. (1998), 346(2/3), 209-215 CODEN: EJPHAZ; ISSN: 0014-2999
. TR F:
                          Elsevier Science B.V.
FIBLISHER:
                          Journal
DOCUMENT TYPE:
                          English
LANGUAGE:
     ANSWER 9 OF 9 CAPLUS COPYRIGHT 1999 ACS
                                                          DUPLICATE 1
19
     189311-41-9P 189311-70-4P
     RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
         (prepn. of 3-amino-5-carbamoyldihydrobenzopyrans as 5-HT1A
antagonists)
    189311-41-9 CAPLUS
RN
     2H-1-Benzopyran-5-carboxamide,
3-(dicyclobutylamino)-8-fluoro-3,4-dihydro-
     , (R)-, (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)
     CRN 169758-66-1
     CMF C18 H23 F N2 O2
     CDES 1:R
Absolute stereochemistry. Rotation (-).
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            0
              R
                  Ν
        0
Исн
     CM
     CRN 87-69-4
     CMF C4 H6 O6
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Absolute stereochemistry.
      ОН
             CO2H
          R
      R
HO<sub>2</sub>C
          ОН
RN 189311-70-4 CAPLUS
ON 2H-1-Benzopyran-5-carboxamide,
:= Toyslobutyloyclopentylamino) =8=fluoro=3,4=
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Absolute stereochemistry. Rotation (-).
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                  Ν
H2N
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     CMF C4 H6 O6
     CDES 1:R2:R*,R*
Absolute stereochemistry.
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      R
HO<sub>2</sub>C
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GI
  CONHR3
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  F
                    Ι
     Title compds. (I; R1 = Pr or cyclobutyl; R2 = CHMe2, CMe3, cyclobutyl,
AΒ
     cyclopentyl, cyclohexyl; R3 = H or Me) were prepd. Thus,
     (R)-3-amino-8-bromo-5-methoxy-3,4-dihydropyran was converted in 9 steps
to
     (R)-I (R1 = Pr, R2 = cyclopentyl, R3 = Me). Data for biol. activity of I
     were given.
                          1997:231466 CAPLUS
ACCESSION NUMBER:
                          126:317317
DOCUMENT NUMBER:
                          Preparation of 3-amino-5-carbamoyldihydrobenzopyrans
TITLE:
```

dihydro-, (R)-, (/k,3R)-2,3-dihydroxybutanedioate (9C1) (CA INDEX NAME)

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S.; Hellberg, Sven E.; Johansson, Lars G.; Lundkvist,
                          Johan R. M.; Ross, Svante B.; Sohn, Daniel D.;
                          Thorberg, Seth O.
PATENT ASSIGNEE(S):
                          Astra Aktiebolag, Swed.
                          U.S., 16 pp. Cont.-in-part of U.S. 5,420,151.
                          CODEN: USXXAM
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT: 5
FATENT INFORMATION:
                                     APPLICATION NO. DATE
     PATENT NO.
                  KIND DATE
                                             _____
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                                        US 1995-362544
ZA 1992-7609
   ( US 5616610 A 19970401

ZA 9207609 A 19930413

AU 9227684 A1 19930503

AU 667687 B2 19960404

EP 607274 A1 10040737
                                                                19950104
                                                               19921002
                                                               19921008
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     EP 607274 A1
EP 607274 B1
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     EP 703229 A2 19960327
EP 703229 A3 19960626
                                        EP 1995-118114 19921008
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             TD, TG
                                              SE 1989-4361
PRIORITY APPLN. INFO .:
                                                               19891222
                                              US 1990-633247 19901221
                                              SE 1991-2905
                                                               19911008
                                              US 1991-780531 19911018
                                              SE 1992-2000
                                                               19920629
                                              US 1992-957214 19921006
                                              US 1993-144671 19931028
                                              WO 1994-SE1010 19941026
                                              EP 1992-921525 19921008
                                              WO 1992-SE708 19921008
OTHER SOURCE(S): MARPAT 126:317317
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     (FILE 'HOME' ENTERED AT 11:48:51 ON 23 JUL 1999)
     FILE 'REGISTRY' ENTERED AT 11:49:00 ON 23 JUL 1999
                STRUCTURE UPLOADED
               2 S L1
                STRUCTURE UPLOADED
             50 S L3
            29 S L1 FUL -
           8067 S L3 FUL Toutunde
              5 S L5 SUB=L6 FUL
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as 5-HT1A antagonists

HIMBERTOR (ST:

Evenden, John L.; Hammarberg, Eva M.; Hansson, Hans

FILE 'CAPLUS, USPATFULL' ENTERED AT 11:54:54 ON 23 JUL 1999 le Le

10 S L7

9 DUP REM L8 (1 DUPLICATE REMOVED)

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SINCE FILE TOTAL ENTRY SESSION 35.42 308.57 COME IN U.S. DOLLARS FILL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION
CA SUBSCRIBER PRICE

-4.82

CA SUBSCRIBER PRICE

STM INTERNATIONAL LOGOFF AT 11:56:50 ON 23 JUL 1999

STN Structure : 9077718.str

chain nodes :

11 12 13 14 15 16 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-12 4-15 9-11 11-19 11-20 12-13 12-14 14-16 14-18

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

5-7 6-10 7-8 8-9 9-10 9-11 11-19 11-20 12-13 12-14 14-18

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G1:H,CH3

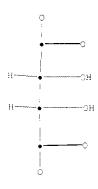
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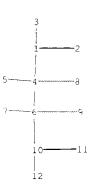
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10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

18:CLASS 19:Atom 20:Atom

STN, Structure: 09077718.str





chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-2 1-3 1-4 4-5 4-6 4-8 6-7 6-9 6-10 10-11 10-12

exact/norm bonds :

1-2 1-3 4-8 6-9 10-11 10-12

exact bonds :

1-4 4-5 4-6 6-7 6-10

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS